OIPE
DEC 22 2004
PATENT & TRADEMARK OFFICE
JC55

12-27-04

IFW

PATENTS
16437-0210U

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re The Application of:
Neil Gerein

Serial No.: 10/681,689

Filed: October 8, 2003

For: A HARDWARE ARCHITECTURE FOR PROCESSING GALILEO ALTERNATE BINARY OFFSET CARRIER (AltBOC) SIGNALS

Examiner: T. Blum

Art Unit: 3661

Cesari and McKenna, LLP
88 Black Falcon Avenue
Boston, MA 02210
December 22, 2004

"Express Mail" Mailing-Label Number: EV433573223US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

RESPONSE

We have carefully considered the Office Action dated September 23, 2004, in which all of the claims are rejected over a combination of Hein and either United States Published Patent Application 2004/0071200 to Betz et al or United States Patent Application 2003/0231580 to Martin et al. We disagree that either combination renders the current invention obvious.

As described in Appendix A to the Hein paper and in the Background section of the current application, the standard BOC modulation involves square subcarrier modulation that shifts the signal into both upper and lower sidebands. The BOC modulation, which produces signals that are similar to the split C/A code discussed in the